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1 BlurFit: an application of functional programming to scientific analysis
D. McClain
December 1999   ACM SIGPLAN Notices, Volume 34 Issue 12
Full text available: 📄 pdf(467.57 KB)   Additional Information: full citation, abstract,

> Functional languages offer numerous advantages when applied to scientific pr
> complexity of the problem expression are possible. The speed of execution is ·
> of a functional programming style allows the investigator to concentrate more
> expression in a computer language. These characteristics were clearly demons
> algorithm written in the O ...

2 Combining programming languages and direct manipulation in environmen
Eric Blough, Michael Eisenberg
August 1995 Proceedings of the conference on Designing interactive systems: pro
techniques
Full text available: 📄 pdf(841.69 KB)   Additional Information: full citation, references

3 Visualisations compactes: une approche déclarative pour la visualisation d'

Thomas Baudel

November 2002 Proceedings of the 14th French-speaking conference on Human-cc
Francophone sur l'Interaction Homme-Machine)

Full text available: pdf(177.81 KB) Additional Information: full citation, abstract, references,

We introduce a descriptive model that allows the definition of a large class of
with a small number of parameters. Compact visualizations, which we conject
visualizations that can be rendered in a time directly proportional to the size c
dataflow architecture: clustering and subclustering of input data, sort, graphic
generation. At each step, the paramet ...

Keywords: algorithm description models, algorithmic complexity of informatio
for information visualization, generic visualization models, information visuali:
taxonomy of representations

4 Supporting runtime tool interaction for parallel simulations

Christopher W. Harrop, Steven T. Hackstadt, Janice E. Cuny, Allen D. Malony, Lä

November 1998 Proceedings of the 1998 ACM/IEEE conference on Supercompu

Full text available: pdf(120.74 KB) Additional Information: full citation, abstract, r

Scientists from many disciplines now routinely use modeling and simulation te
biological phenomena. Advances in high-performance architectures and netwo
complex simulations with parallel and distributed interacting components.Unfc
support such complex simulations has lagged behind hardware developments.
support: runtime program interaction. We have developed a ru ...

Keywords: computational steering, matlab, runtime interaction

5 OOPAL: integrating array programming in object-oriented programming

Philippe Mougin, Stéphane Ducasse

October 2003 ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLA
programing, systems, languages, and applications, Volume 38 Issu

Full text available: pdf(158.90 KB) Additional Information: full citation, abstract, references,

Array programming shines in its ability to express computations at a high-leve
manipulate and query whole *sets* of data at *once*. This paper presents the OP/
programming with array programming features. The goal of OPA is to determi
must be made to the traditional object model in order to take advantage of th
is based on a minimal extensio ...

Keywords: array programming, f-script, high-level language, high-order mess

6 New Products

January 1998　　　　　Linux Journal

Full text available: html(5.05 KB)　Additional Information: full citation, index terms

7 A rule-based tool for assisting colormap selection

L. D. Bergman, B. E. Rogowitz, L. A. Treinish

October 1995　　　　Proceedings of the 6th conference on Visualization '95

Full text available: pdf(1.77 MB) Publisher Site　　　　　　　Additional Informati

The paper presents an interactive approach for guiding the user's select of col implemented as a module in the IBM Visualization Data Explorer, provides the colormaps given the data type and spatial frequency, the user's task, and pro

Keywords: IBM Visualization Data Explorer, PRAVDAColor, colormap selection, type, data visualisation, expert systems, human perceptual system, rule-base

8 Visualization environments: Bridging the gap between visualization and dat management system

Peter Kochevar, Zahid Ahmed, Jonathan Shade, Colin Sharp

October 1993　　　　Proceedings of the 4th conference on Visualization '93

Full text available: pdf(876.56 KB)　　　　　Additional Information: full citation, abstract,

A prototype *visualization management system is* described which merges the system with any number of existing visualization packages such as AVS or IDI database management system to store and access Earth science data through located in the database is visualized by automatically invoking a desired visua appropriate script or program. The central idea u ...

9 New Products

August 1998　　　　　Linux Journal

Full text available: html(6.30 KB)　Additional Information: full citation, index terms

10 Session C4: bio-medical II: 4D space-time techniques: a medical imaging c

Melanie Tory, Niklas Röber, Torsten Möller, Anna Celler, M. Stella Atkins

October 2001   Proceedings of the conference on Visualization '01

Full text available: pdf(1.27 MB) Publisher Site   Additional Information: full citation, abs

We present the problem of visualizing time-varying medical data. Two medica
MRI and dynamic SPECT. For each modality, we examine several derived scale
change in intensity over time, the spatial gradient, and the change of the grac
methods for presenting the data, including isosurfaces, direct volume renderir
These techniques may provide more informati ...

Keywords: 4D visualization, I.3.3 animations, I.3.7 display algorithms, J3 hea
dynamic SPECT, glyph, isosurface

11 IDL: sharing intermediate representations

David Alex Lamb

July 1987   ACM Transactions on Programming Languages and Systems (TOPLAS)

Full text available: pdf(1.77 MB)   Additional Information: full citation, abstract, references, citing:

IDL (Interface Description Language) is a practical and useful tool for controlli
between different components of a large system. IDL is a notation for describi
structures through which they communicate. Using IDL, a designer gives abst
together with representation specifications that specialize the abstract structu
IDL translator, generates r ...

12 Extending IDL to support concurrent views

D. Garlan

November 1987   ACM SIGPLAN Notices, Volume 22 Issue 11

Full text available: pdf(1.07 MB)   Additional Information: full citation, abstract, citings, i

Derivation and refinement in IDL currently provide kinds of *views* in the sense
the same data in different ways. But derivation and refinement are limited in
access to shared information and (b) the range of differences between derivec
we outline an architecture in which IDL is extended to correct these problems
IDL-based tools to access ...

13 Customizing IDL mappings and ORB protocols

Girish Welling, Maximilian Ott
April 2000   IFIP/ACM International Conference on Distributed systems platfor

Full text available: pdf(293.12 KB)   Additional Information: full citation, abstract,

Current mappings of IDL to implementation languages such as
data-types, which makes it imperative for an object implement;
While being completely CORBA-compliant ensures portability a/
classes of enterprise applications may *only* require interoperabi
applications. Other applications may be constrained by such fac
code-base or a widely used communicatio ...

14 Flick: a flexible, optimizing IDL compiler

Eric Eide, Kevin Frei, Bryan Ford, Jay Lepreau, Gary Lindstrom
May 1997 ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1997 conferei
and implementation, Volume 32 Issue 5

Full text available: pdf(1.75 MB)   Additional Information: full citation, abstract, references, ci

An interface definition language (IDL) is a nontraditional language for describi
components. IDL compilers generate "stubs" that provide separate communic;
local object invocation or procedure call. High-quality stub generation is esser
component-based designs, whether the components reside on a single compu·
Typical IDL compilers, ...

15 Relationship between IDL and structure editor generation technology

P. H. Feiler
November 1987 ·   ACM SIGPLAN Notices, Volume 22 Issue 11

Full text available: pdf(860.55 KB)   Additional Information: full citation, abstract, in

This paper discusses observed commonalities and differences between IDL an
technologies. IDL (Interface Description Language) is technology for generatic
with roots in compiler generation. Structure editor generation technology has
produces environments for interactive viewing and manipulation of formally s|
use a formal notation for structural and constr ...

16 Distributed programming with intermediate IDL

Gary W. Smith, Richard A. Volz ·
June 1999 ACM SIGAda Ada Letters , Proceedings of the ninth international works
Issue 2

Full text available: pdf(484.55 KB)   Additional Information: full citation, abstract,

Several heterogeneous-language distributed programming systems have been
Interface Definition Language (IDL) for the specification of distributed objects
language specifications to corresponding client language representations. In tl
which combines the advantages of these prior systems. Our approach uses an
the translation from server to client lang ...

17 Invited workshop on middleware interoperability of enterprise applications: compliance of IDL-compilers and interoperability of CORBA-based applicat

Markus Aleksy, Ralf Gitzel

September 2003   Proceedings of the 1st international symposium on Information ￢

Full text available: pdf(92.69 KB)   Additional Information: full citation, abstract, r

Ever since the introduction of version 2.0 of the CORBA specification, that arcl popularity. There are two reasons for this, both due to the underlying principle between different ORB products and the possibility of cooperation with other (advantage to come to bear, it is paramount that the IDL specification is accur In this paper we examine the IDL compilers ...

18 The Concert signature representation: IDL as intermediate language

Joshua S. Auerbach, James R. Russell

August 1994   ACM SIGPLAN Notices , Proceedings of the workshop on Interface de

Full text available: pdf(856.78 KB)   Additional Information: full citation, abstract, citing

In the Concert multilanguage distributed programming system, interface spec programming languages, not a separate IDL. However, an IDL is still necessar between declarations in different languages. A single representation is also de aspects of the implementation. Consequently, Concert has an IDL as an interr front-ends and not normally manipulated by programmer ...

19 An IDL to Ada95 mapping to support propagation modeling

D. Needham, S. Demurjian, T. Peters

March 2000   ACM SIGAda Ada Letters, Volume XX Issue 1

Full text available: pdf(650.18 KB)   Additional Information: full citation, abstract,

Representing dynamic interdependencies between design objects is an essent communications found in complex software systems. This paper investigates t for dynamic interdependencies), which are captured using design-level trigger object types. We focus on the CORBA-compliant utilization of our propagation propagation-focused applications. We develop ...

20 Adding more “DL” to IDL: towards more knowledgeable comp

Alex Borgida, Premkumar Devanbu

May 1999   Proceedings of the 21st international conference on Software engine

Full text available: pdf(1.16 MB)   Additional Information: full citation, references, citings, index t

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